

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (previously presented): A fluid spray device for spraying a fluid product, the fluid spray device comprising a fluid reservoir (10), a dispensing member (20) mounted on said reservoir (10), and a dispensing head (30) provided with a dispensing orifice (31) and mounted on said dispensing member (20) to move between a rest position and a dispensing position, said dispensing head (30) including a spray nozzle insert (32) for limiting the dead volume, and a spray profile (33) for ensuring that the product is sprayed when the dispensing member (20) is actuated, the device further comprising a closure system (40) fixed to said reservoir (10) and comprising a closure element (41) suitable for closing off the dispensing orifice (31) from the outside when the dispensing head (30) is in the rest position, said closure system (40) further comprising passageway means (42) co-operating with said dispensing orifice (31) when the dispensing head (30) is in the dispensing position, and making it possible for the fluid product to be expelled through said dispensing orifice (31), said fluid spray device being characterized in that said dispensing member (20) has an initial dead stroke, actuating of said dispensing member (20) and spraying of the product starting only after the dispensing head (30) has traveled over said dead stroke, when the dispensing orifice (31) is situated facing said passageway means (42) in said closure system (40).

2. (original): A device according to claim 1, in which said closure system (40) is formed such as to make it possible for the dispensing head (30) to be actuated manually by a user.

3. (previously presented): A device according to claim 1, in which the dispensing head (30) is mounted to move axially and the dispensing orifice (31) is directed radially, said closure system (40) being implemented in the form of a hollow sleeve (45) disposed around said dispensing head (30), said hollow sleeve (45) having, on one side, the opening (42) and the closure element (41) disposed above said opening (42), and, on another side, a cutout through which the dispensing head (30) projects so that it can be actuated by the user.

4. (previously presented): A device according to claim 1, in which, while the dispensing head (30) is returning from its dispensing position to its rest position, after the dispensing member (20) has been actuated, the closure element (41) slides snugly over the zone situated around the dispensing orifice (31), so as to remove any trace of the fluid product at said dispensing orifice (31) totally.

5. (previously presented): A device according to claim 1, in which said closure system (40) is snap-fastened to a neck of the reservoir (10).

6. (previously presented): The device according to claim 1, wherein the dispensing member is a pump.

7. (previously presented): The device according to claim 1, wherein the passageway means is an opening.

8. (previously presented): A fluid spray device for spraying a fluid, comprising:
a fluid reservoir containing a fluid;
a dispensing member connected to the reservoir; and
a dispensing head provided with a dispensing orifice, the dispensing head mounted to the dispensing member to move between a rest position and a dispensing position, and wherein the dispensing head comprises a spray nozzle that sprays a mist of the fluid;

the spray device further comprising:

a closure system fixed to the fluid spray device so as to remain immobile when the dispensing head moves between the rest position and the dispensing position;

a closure element that closes off the dispensing orifice from the outside when the dispensing head is in the rest position;

a passageway positioned to be in front of the dispensing orifice when the dispensing head is in the dispensing position, so that the fluid is expelled through the dispensing orifice and the passageway; and

wherein the dispensing member has an initial dead stroke, so that actuation of the dispensing member and spraying of the fluid starts only after the dispensing head has traveled over the dead stroke and the dispensing orifice is disposed facing the passageway.

9. (canceled).

10. (previously presented): The device according to claim 8, wherein, after the dispensing head is released to move to the rest position, the dispensing orifice moves upward into sliding contact with the closure element.

11. (previously presented): The device according to claim 1, wherein actuating of the dispensing member and spraying of the product starts only after the dispensing head has traveled over the dead stroke for each time the dispenser head moves from the rest position to the dispensing position during operation of the device.

12. (previously presented): The device according to claim 1, wherein the fluid product does not include air.

13. (previously presented): The device according to claim 1, wherein the fluid product is not exposed to air until after the fluid product is sprayed from the dispensing orifice.

14. (previously presented): The device according to claim 1, wherein the dispensing member comprises a dosing chamber and, when the dosing chamber is filled with the product, spraying of the product starts only after the dispensing head has traveled over said dead stroke.

15. (previously presented): The device according to claim 8, wherein actuation of the dispensing member and spraying of the fluid starts only after the dispensing head has traveled over the dead stroke for each time the dispenser head moves from the rest position to the dispensing position during operation of the device.

16. (previously presented): The device according to claim 8, wherein the fluid does not include air.

17. (previously presented): The device according to claim 8, wherein the fluid is not exposed to air until after the fluid is sprayed from the dispensing orifice.

18. (previously presented): The device according to claim 8, wherein the dispensing member comprises a dosing chamber and, when the dosing chamber is filled with the fluid, spraying of the product starts only after the dispensing head has traveled over said dead stroke.

19. (previously presented): The device according to claim 1, wherein the fluid reservoir contains the fluid product that is sprayed from the device and wherein the fluid product oxidizes when in contact with air.

20. (previously presented): The device according to claim 1, wherein the dispensing member comprises a piston and the dead stroke is a predetermined distance of axial travel of the piston that is traveled prior to each spraying of the product.

21. (previously presented): The device according to claim 8, wherein the fluid oxidizes when in contact with air.

22. (previously presented): The device according to claim 11, wherein the dead stroke is a predetermined axial distance of travel.

23. (previously presented): The device according to claim 11, wherein the dispensing member includes a pump, and the dead stroke is a predetermined axial distance of travel of the pump.

24. (new) The device according to claim 1, wherein, during the initial dead stroke, there is no pressure increase in the dispensing member and there is no product expulsion from the dispensing member.

25. (new) The device according to claim 8, wherein, during the initial dead stroke, there is no pressure increase in the dispensing member and there is no fluid expulsion from the dispensing member.